

07/15/03
17698 U.S. PTO

UTILITY APPLICATION

Attorney Docket No.: CANNING.001CP2
First Named Inventor: Francis X. Canning
Title: SPARSE AND EFFICIENT BLOCK
FACTORIZATION FOR INTERACTION DATA
Express Mail Label No.: EV 319020583 US

Direct all correspondence to Customer No.: 20995

Date: July 15, 2003

Page 1 of 2

Mail Stop Patent Application

United States Patent and Trademark Office
PO Box 1450
Alexandria, VA 22313-1450

17658 U.S. PTO
10/619796
07/15/03

The following enclosures are transmitted herewith to be filed in the patent application of:

Inventor:

1. Francis X. Canning
- 2.
- 3.
- 4.

APPLICATION ELEMENTS:

- (X) Specification in 73 pages.
- (X) Drawings in 15 sheets.
- (X) Declaration and Power of Attorney by Inventors in 2 pages.
 - Originally signed

CONTINUITY INFORMATION:

Application	Relationship	Parent App. No.	Filing Date	Status
This Application	Continuation-in-part of	10/354,241	01/29/03	Pending
10/354,241	Continuation-in-part of	09/676,727	09/29/00	Pending
This Application	Non-Provisional of	60/175,454	01/10/00	Closed
This Application	Non-Provisional of	60/396,133	07/15/02	Pending

- (X) Incorporation by Reference. The entire disclosure of the prior applications is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

OTHER APPLICATION PARTS:

- (X) Return prepaid postcard.

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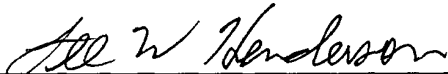
FILING FEES:

The present application qualifies for small entity status under 37 C.F.R. § 1.27. The fees are calculated below:

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Basic Utility		2001 (\$375)		\$375
Non-English Spec.		1053 (\$130)		\$0
Recordation Fee		8021 (\$40)	x 40 =	\$0
Excess Claims > 20	14 - 20 = 0	2202 (\$9)	0 x 9 =	\$0
Independent > 3	3 - 3 = 0	2201 (\$42)	0 x 42 =	\$0
Multiple Claim		2203 (\$140)		\$375
			TOTAL FEE DUE	\$375

(X) A check in the amount of **\$375.00** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.


 Lee W. Henderson Ph.D.
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MAIL STOP PATENT APPLICATION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Attorney Docket No. : CANNING.001CP2

Applicant : Francis X. Canning

For : SPARSE AND EFFICIENT BLOCK
FACTORIZATION FOR INTERACTION
DATA

Attorney : Lee W. Henderson Ph.D.


"Express Mail"
Mailing Label No. : EV 319020583 US

Date of Deposit : July 15, 2003

I hereby certify that the accompanying

Transmittal letter; specification in 73 pages; 15 sheets of drawings; **SIGNED**
Declaration and Power of Attorney in 2 pages; Check for Filing Fee; Return
Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Nelson Merida

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